

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: FAIL-SAFE

Report Number: P488996

Luminaire Tested: **CLM-24-2-INS-A12125-LD4-4STD-50-120-EDD-90**

Issue Date: 3/11/2021

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.



Test Information

Test Method: LM-79-08
Report Number: P488996
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-115-8)
Test Lab: INNOVATION CENTER
Issue Date: 3/11/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: CLM-24-2-INS-A12125-LD4-4STD-50-120-EDD-90
Description: 2X2 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

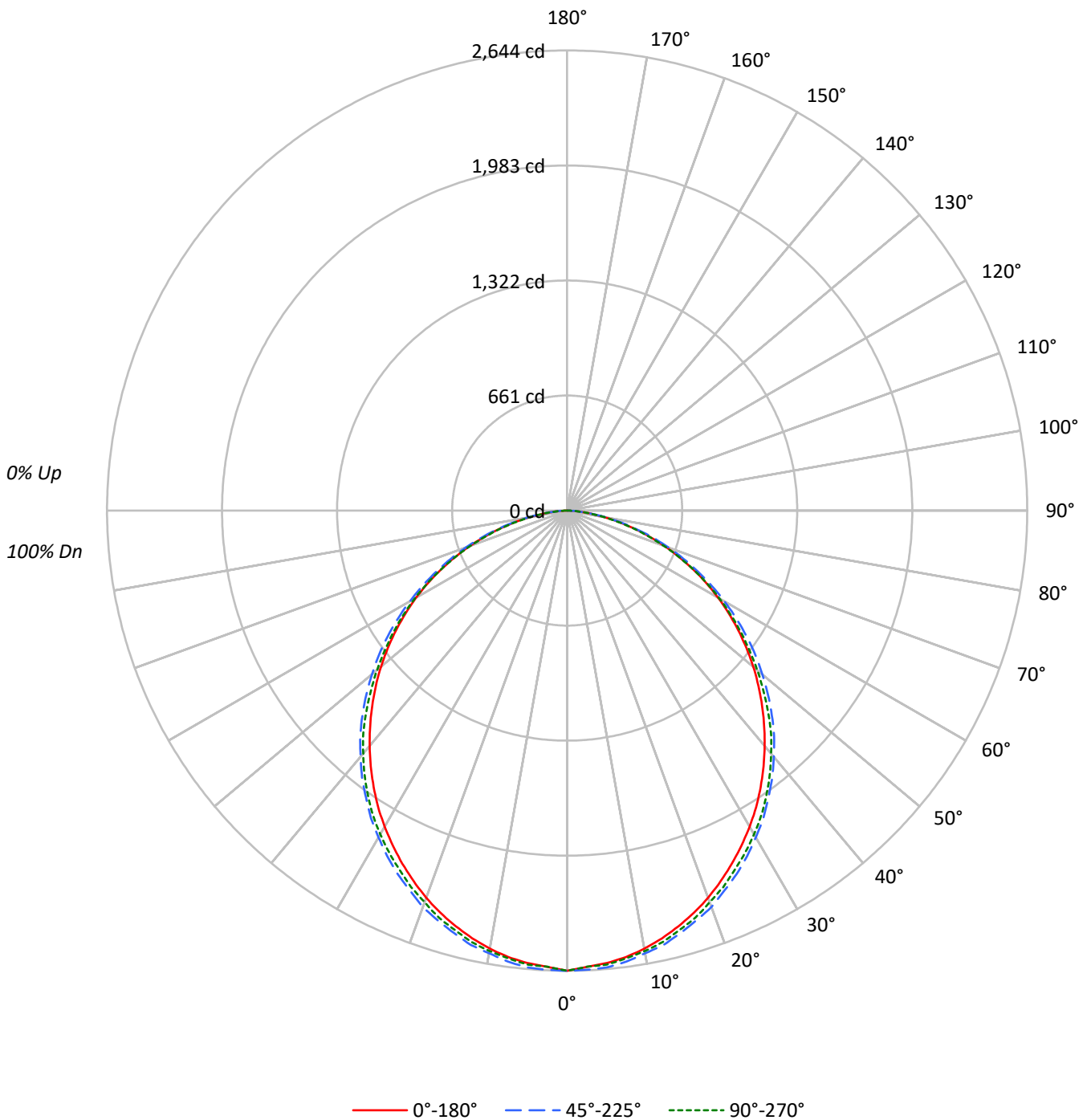
Lumens per Lamp: N/A
Luminaire Lumens: 6952.2 lumens
Efficiency: N/A
Efficacy: 104.4 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 66.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	100	97	106	102	98	95	98	95	92	94	92	89	91	88	87	85
2	99	91	85	79	97	90	83	78	86	81	76	83	78	75	80	76	73	71
3	91	80	72	66	88	79	71	65	76	70	64	73	68	63	71	66	62	60
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	54	51
5	77	64	55	48	75	63	54	48	61	53	48	59	52	47	57	51	47	45
6	71	58	49	42	69	57	48	42	55	47	42	53	47	41	52	46	41	39
7	66	52	44	38	64	51	43	37	50	43	37	49	42	37	47	41	37	35
8	61	48	39	34	60	47	39	33	46	38	33	45	38	33	43	37	33	31
9	57	44	36	30	56	43	35	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	27	52	40	32	27	39	32	27	38	32	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7116	7116	7116
5°	7050	7116	7072
10°	6986	7056	7023
15°	6889	7000	6951
20°	6781	6942	6858
25°	6648	6841	6763
30°	6514	6735	6673
35°	6367	6620	6558
40°	6202	6487	6405
45°	6028	6332	6212
50°	5847	6129	5969
55°	5635	5898	5717
60°	5394	5618	5445
65°	5084	5279	5088
70°	4678	4866	4626
75°	4119	4305	4056
80°	3347	3493	3309
85°	2331	2482	2424



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	249.0	3.6
10°-20°	705.7	10.2
20°-30°	1052.6	15.1
30°-40°	1247.3	17.9
40°-50°	1262.1	18.2
50°-60°	1102.3	15.9
60°-70°	805.5	11.6
70°-80°	428.6	6.2
80°-90°	99.1	1.4
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	2007.4	28.9
0°-40°	3254.7	46.8
0°-60°	5619.1	80.8
0°-90°	6952.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6952.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2644	2644	2644	2644	2644	
5°	2610	2615	2634	2640	2618	247
15°	2473	2489	2513	2528	2495	697
25°	2239	2267	2304	2313	2278	1032
35°	1938	1968	2015	2029	1996	1212
45°	1584	1612	1664	1665	1632	1222
55°	1201	1225	1257	1239	1219	1074
65°	798	815	829	812	799	790
75°	396	405	414	399	390	421
85°	76	77	80	81	78	96
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2644.4	2644.4	2644.4	2644.4	2644.4
2.5°	2623.7	2632.2	2641.1	2644.9	2623.4
5°	2609.9	2614.9	2634.5	2640.5	2618.2
7.5°	2587.3	2594.8	2613.8	2616.5	2595.1
10°	2556.5	2569.7	2582.4	2596.2	2570.0
12.5°	2517.1	2535.0	2556.5	2559.0	2539.1
15°	2472.7	2489.3	2512.7	2527.8	2495.0
17.5°	2423.1	2439.1	2469.4	2472.2	2452.3
20°	2367.8	2387.6	2424.0	2430.3	2394.8
22.5°	2304.9	2331.7	2362.0	2368.0	2341.9
25°	2239.1	2266.6	2304.1	2312.7	2277.7
27.5°	2170.2	2196.7	2238.8	2244.9	2215.4
30°	2096.4	2121.2	2167.5	2177.7	2147.6
32.5°	2021.4	2046.2	2097.5	2106.0	2076.8
35°	1938.2	1968.5	2015.1	2029.1	1996.4
37.5°	1853.4	1882.9	1935.8	1948.4	1913.2
40°	1765.5	1794.7	1846.8	1857.2	1823.3
42.5°	1675.7	1704.9	1760.5	1762.2	1734.1
45°	1583.9	1612.0	1663.8	1665.2	1632.4
47.5°	1490.8	1519.2	1565.5	1560.2	1529.4
50°	1396.6	1423.6	1464.1	1453.6	1425.8
52.5°	1299.0	1325.2	1363.5	1346.4	1320.3
55°	1201.0	1225.2	1257.2	1239.0	1218.6
57.5°	1102.1	1126.6	1151.1	1132.6	1115.0
60°	1002.3	1023.8	1043.9	1025.2	1011.7
62.5°	900.9	919.4	936.7	918.8	906.2
65°	798.4	814.7	829.0	812.5	799.0
67.5°	696.5	710.3	723.5	706.4	692.4
70°	594.6	606.4	618.5	600.9	587.9
72.5°	494.0	504.5	515.2	498.1	486.8
75°	396.2	405.3	414.1	398.9	390.1
77.5°	302.8	310.5	316.6	306.9	298.4
80°	216.0	221.8	225.4	221.5	213.5
82.5°	138.9	143.0	144.9	144.6	139.4
85°	75.5	76.9	80.4	81.3	78.5
87.5°	29.2	31.1	32.0	34.4	31.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)